

## CLAIMS:

1. A method of analyzing a quantity having temporal and spatial variations, wherein

- a multidimensional output data array is formed
- the multidimensional output data array comprises array positions arranged along at least a first data-axis and a second data-axis,
- values of the quantity are entered in the multidimensional output data array, such that
  - values of the quantity at substantially the same instant are entered at respective positions in the multidimensional output data array at equal positions along the first data-axis and
  - values of the quantity at substantially the same spatial position are entered at respective positions in the multidimensional output data array at equal positions along the second data-axis.

2. A method as claimed in Claim 1, wherein

- values of the quantity are acquired for respective temporal instants and for respective spatial sections and
- values of the quantity for individual spatial sections are entered at respective positions in the multidimensional output data array at equal positions along the second data-axis.

3. A method as claimed in Claim 1 or 2, wherein

- values of the quantity are acquired for respective time intervals and for respective spatial positions and values of the quantity for individual time interval are entered at respective positions in the multidimensional output data array at equal positions along the first data-axis.

4. A method as claimed in Claim 1, wherein

- values of the quantity for successive time intervals are entered at adjacent positions in the multidimensional output data array and

- values of the quantity for adjacent spatial sections are entered at adjacent positions in the multidimensional output data array.

5. A method as claimed in Claim 4, wherein values of the quantity for radially  
5 contiguous spatial sections are entered at contiguous positions in the multidimensional output data array.

6. A method as claimed in Claim 1, wherein the values of the quantity are  
derived from a series of images.

10 7. A method as claimed in Claim 6, wherein values of the quantity at respective  
instants are derived from respective images in said series of images.

8. A method as claimed in Claim 7, wherein respective positions in the  
15 multidimensional output data array are linked to respective spatial sections in respective  
images of the series.

9. A method as claimed in Claim 8, wherein the multidimensional output data  
array is displayed,

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- a position in the displayed multidimensional output data array is indicated and
  - on the basis of the indicated position in the displayed multidimensional output data array  
the corresponding image of the series is displayed and the corresponding spatial section  
in the image is marked.

25 10. A method as claimed in Claim 1, wherein the quantity pertains to perfusion of  
the myocardium.

11. A data processing system arranged to

- 30
- form a multidimensional output data array
  - the multidimensional output data array comprising array positions arranged along at least  
a first data-axis and a second data axis
  - enter values of the quantity in the multidimensional output data array, such that

- values of the quantity at substantially the same instant are entered at respective positions in the multidimensional output data array at equal positions along the first data-axis and
- values of the quantity at substantially the same spatial position are entered at  
5        respective positions in the multidimensional output data array at equal positions along the second data-axis.

12.            A computer program comprising instruction to

- form a multidimensional output data array
- 10   - the multidimensional output data array comprising array positions arranged along at least a first data-axis and a second data axis
- enter values of the quantity in the multidimensional output data array, such that
- values of the quantity at substantially the same instant are entered at respective positions in the multidimensional output data array at equal positions along the first data-axis and
- 15   - values of the quantity at substantially the same spatial position are entered at respective positions in the multidimensional output data array at equal positions along the second data-axis.